SEARCH REQUEST FORM

Scientific and Technical Information Center

Art Unit: 1755 Phone ?	Number 30 2-1367	Examiner #: 65354 Date: 5-15-06 Serial Number: 10/533,476 Ults Format Preferred (circle): PAPER DISK E-MAIL
If mor than one search is subm	itted, please prioritiz	ze searches in order of need.
Please provide a detailed statement of the Include the elected species or structures, k	search topic, and describe a eywords, synonyms, acron that may have a special me	as specifically as possible the subject matter to be searched. syms, and registry numbers, and combine with the concept or eaning. Give examples or relevant citations, authors, etc, if abstract.
Title of Invention:	,	
Inventors (please provide full names): _		
Earliest Priority Filing Date:		
	de all pertinent information (parent, child, divisional, or issued patent numbers) along with the
appropriate serial number.	LEASE SEE	ATTACHED.
		•
(There was so little	_ involving (III)	and (W), nothing was done with the
,		
Commercially available	pigment's (1)	and (II) as far as the search went,
*********	******	**********
STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher:	NA Sequence (#)	STN 7 206 25
Searcher Phone #:	AA Sequence (#)	Dialog
Searcher Location:	Structure (#)	Questel/Orbit
Date Searcher Picked Up:	Bibliographic	Dr.Link
Date Completed: 5-17.	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
-Clerical Prep-Time:	Patent Family	WWW/Internet
Online Time:	Other	Other (specify)

Banks, Kendra

From:

ANTHONY GREEN [anthony.green@uspto.gov]

Sent:

Sunday, May 14, 2006 8:40 PM STIC-EIC1700

T:

Subject:

Database Search Request, Serial Number: 10/533,476

Requester:

ANTHONY GREEN (P/1755)

Art Unit:

GROUP ART UNIT 1755

Employee Number:

65854

Office Location:

REM 09C15

Phone Number:

(571) 272-1367

Mailbox Number:

SCIENTIFIC REFERENCE BR Sci P rech Inf . Cnt.

MAY 1 5 REC.

Pat. & T.M. Office

Case serial number: 10/533,476

Class / Subclass(es):

Earliest Priority Filing Date:

10/31/02

Format preferred for results:

E-mail

Search Topic Information:

Please do a structure search for the structures found in claim 1 of 10/533,476 (especially the structures labeled (III) and (IV). The claim is available in eDan. Thanks

Special Instructions and Other Comments:



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov



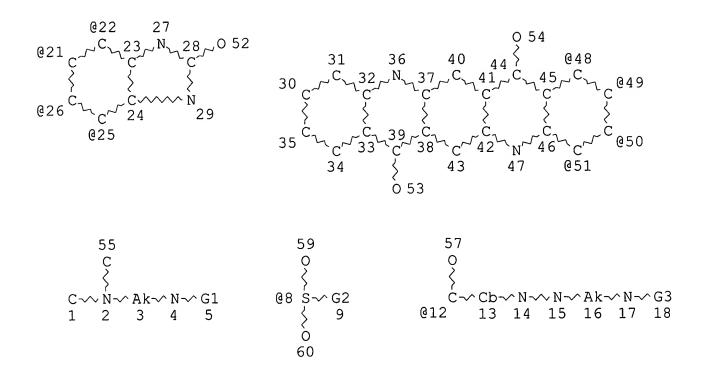
Rib Data Sheet

CONFIRMATION NO. 4041

DID Data Sheet										
SERIAL NUMB 10/533,476	ER	FILING DATE 04/29/2005 RULE	C	CLASS 106	GRO	UP AR 1755	T UNIT	D	ATTORNEY OCKET NO. 2002CH106	
APPLICANTS										
Bruno Piastra, Huningue, FRANCE;										
Hans Joac	Hans Joachim Metz, Darmstadt, GERMANY;									
This applic ** FOREIGN APF EUROPEA	** CONTINUING DATA ******************************* This application is a 371 of PCT/IB03/04801 10/29/2003 *** FOREIGN APPLICATIONS ************************************									
IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 03/02/2006										
Foreign Priority claimed 35 USC 119 (a-d) cond		yes no no Met afte	or.	STATE OR	SHE	EETS	тот	AL	INDEPENDENT	
met Verified and Acknowledged	Exar	Allowance	tials	COUNTRY FRANCE		WING 0	CLAII 13		CLAIMS 2	
ADDRESS 25255 CLARIANT CORPORATION INTELLECTUAL PROPERTY DEPARTMENT 4000 MONROE ROAD CHARLOTTE, NC 28205										
TITLE Pigment formulati	ions a	and processes for their	preparat	iion						
FILING FEE	FEES No.	: Authority has been gi to charge/cre	iven in P	aper	NT		6 Fees () essing Ext. of	
į į	1.0 stranger or a stranger of the stranger of									

=> file reg FILE 'REGISTRY' ENTERED AT 12:20:24 ON 18 MAY 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 American Chemical Society (ACS)

```
=> d his
     FILE 'LREGISTRY' ENTERED AT 11:50:32 ON 18 MAY 2006
L1
                STR
     FILE 'REGISTRY' ENTERED AT 12:08:46 ON 18 MAY 2006
             0 S L1
L2
L3
                SCR 1840 AND 1609
L4
              0 S L1 AND L3
    FILE 'LREGISTRY' ENTERED AT 12:11:07 ON 18 MAY 2006
                STR L1
L5
     FILE 'REGISTRY' ENTERED AT 12:14:43 ON 18 MAY 2006
L6
             0 S L5 AND L3
L7
               STR L5
             0 S L7 AND L3
L8
L9
              6 S L7 AND L3 FUL
               SAV L9 GRE476/A
    FILE 'CAOLD' ENTERED AT 12:19:49 ON 18 MAY 2006
             0 S L9
L10
     FILE 'ZCAPLUS' ENTERED AT 12:19:56 ON 18 MAY 2006
              5 S L9
L11
     FILE 'REGISTRY' ENTERED AT 12:20:24 ON 18 MAY 2006
=> d 19 que stat
L3
                SCR 1840 AND 1609
L7
               STR
```



VAR G1=8/12
VAR G2=48/49/50/51
VAR G3=22/21/26/25
NODE ATTRIBUTES:
NSPEC IS RC AT 1
NSPEC IS RC AT 55
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 52

STEREO ATTRIBUTES: NONE

L9 6 SEA FILE=REGISTRY SSS FUL L7 AND L3

100.0% PROCESSED 93332 ITERATIONS 6 ANSWERS SEARCH TIME: 00.00.02

=> file zcaplus FILE 'ZCAPLUS' ENTERED AT 12:20:40 ON 18 MAY 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

=> d l11 1-5 ibib abs hitstr hitrn

L11 ANSWER 1 OF 5 ZCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:370696 ZCAPLUS

DOCUMENT NUMBER:

140:376900

TITLE:

Pigment formulations and their production

PATENT ASSIGNEE(S):

Clariant International Ltd., Switz.

SOURCE:

Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE: LANGUAGE: Patent

FAMILY ACC. NUM. COUNT:

English 1

PATENT INFORMATION:

PAT	rent 	NO.	-		KIN	D -	DATE			APPL:	ICAT	ION I	NO.		D	ATE
EP	 1416	- 018			A1		2004	0506		EP 20	002-	4059	30			
																00210 1
	R:									GR, CY,					SE,	MC,
WO	2004													02,	,	21.
															2	00310 9
	W: RW:	CN, GD, KZ, MZ, SK, YU, GH,	CO, GE, LC, NI, SL, ZA, GM,	CR, GH, LK, NO, SY, ZM, KE,	CU, GM, LR, NZ, TJ, ZW LS,	CZ, HR, LS, OM, TM,	DE, HU, LT, PG, TN,	DK, ID, LU, PH, TR,	DM, IL, LV, PL, TT,	BB, DZ, IN, MA, PT, TZ, SZ, BE,	EC, IS, MD, RO, UA,	EE, JP, MG, RU, UG,	EG, KE, MK, SC, US,	ES, KG, MN, SD, UZ,	FI, KP, MW, SE, VC,	GB, KR, MX, SG, VN,
		EE, SI, NE,	ES, SK, SN,	FI, TR, TD,	FR, BF, TG	GB, BJ,	GR, CF,	HU, CG,	IE, CI,	IT, CM,	LU, GA,	MC, GN,	NL, GQ,	PT,	RO,	SE,
	2003		27													00310 9
EP	1558	683			A1		2005	0803		EP 2	003-	7538	69		2	00310 9

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,

PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

CN 1723249 A 20060118 CN 2003-80102344

200310 29

PRIORITY APPLN. INFO.: EP 2002-405930 A

200210

31

W

WO 2003-IB4801

200310 29

The invention relates to a pigment formulation which comprises at least one org. pigment selected from C.I. Pigment Red 279 or C.I. Pigment Orange 80 (both thiazine indigo pigments) and at least one pigment-dispersing agent. The invention further relates to a process for prepg. such a formulation as well as to a method of pigmenting high mol. wt. org. material of natural or synthetic origin with the formulation.

IT 164578-14-7 227098-09-1

(dispersant; pigment compns. contg.)

RN 164578-14-7 ZCAPLUS

CN Benzamide, N-[3-(diethylamino)propyl]-4-[[1-[[(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]- (9CI) (CA INDEX NAME)

$$Me-C O Me-C N Me-C NH NH NH$$

$$N=N-CH-C-NH NH NH$$

RN 227098-09-1 ZCAPLUS

CN Quino[2,3-b]acridine-2-sulfonamide, N-[3-(diethylamino)propyl]-5,7,12,14-tetrahydro-7,14-dioxo-(9CI) (CA INDEX NAME)

IT 164578-14-7 227098-09-1

(dispersant; pigment compns. contg.)

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN

THE RE FORMAT

L11 ANSWER 2 OF 5 ZCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2000:612128 ZCAPLUS

DOCUMENT NUMBER:

133:209274

TITLE:

Pigment dispersants and their use in color

photosensitive compositions with good storage

stability

INVENTOR(S):

Takeda, Akihiko; Sugiyama, Takekatsu

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2000239554	A2	20000905	JP 1999-44813	199902
PRIO	RITY APPLN. INFO.:			JP 1999-44813	23 199902 23

OTHER SOURCE(S): MARPAT 133:209274

The dispersants are used in an org. solvent with pigments and contain AN:NXY type compds. where A, XY are groups can form azo colorants provided that X is direct bond or 1,3-C6H4CONH, 1,4-C6H4CONH, 1,3-C6H4SO2NH, 1,4-C6H4SO2NH, and 1,4-C6H4O, Y is Ph groups bearing 1 or 2 CONHXNR2 groups (Z = lower alkylene group; NR2

= lower alkylamino groups or N-contg. heterocyclic groups). The photosensitive compns. are useful as inks or photo-imaging materials, etc. Thus, heating di-Me 5-nitroisophthalate with N,N-diethyl-1,3-propanediamine at 80-100.degree., and mixing the resulting 5-nitroisophthalic acid bis(3-diethylaminopropylamide) with Et3N, DMF and 4-nitrobenzoyl chloride gave 4-nitrobenzoyl-4-[3,5-bis(3-diethylaminopropylcarbamoyl)]phenylamide which was reduced, diazotized and coupled with 5-acetoacetylaminobenzimidazolo ne to give a dispersant. Mixing C.I. Pigment Red 254 (pigment) 6.4 with the dispersant 0.6, a benzyl methacrylate-methacrylic acid copolymer soln. 15.8 and 1-methoxy-2-Pr acetate 57.2 g gave a pigment dispersion with viscosity 30 cP and color contrast 1350.

IT 290829-11-7P

(dispersants; manuf. of pigment dispersants and use in color photosensitive compns. with good storage stability)

RN 290829-11-7 ZCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[3-(diethylamino)propyl]-5-[[1-[(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]- (9CI) (CA INDEX NAME)

IT 290829-11-7P

(dispersants; manuf. of pigment dispersants and use in color photosensitive compns. with good storage stability)

L11 ANSWER 3 OF 5 ZCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:401627 ZCAPLUS

DOCUMENT NUMBER: 131:46022

TITLE: Process for preparing organic pigment

compositions useful for high-solids coatings

Radeio Thraheem T : Rice Daphne T : Greene

INVENTOR(S): Badejo, Ibraheem T.; Rice, Daphne J.; Greene,

Michael J.

PATENT ASSIGNEE(S): Bayer Corp., USA

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

P <i>i</i>	ATENT NO.		KIND	DATE	APPLICATION NO.	DATE
 E1	924265		A2	19990623	EP 1998-123145	199812
	924265 924265			19991103 20030319		04
	•	•		, ES, FR, , FI, RO	GB, GR, IT, LI, LU, NL,	SE, MC,
បះ	5 5972099				US 1997-991980	199712 17
CZ	A 2255158		AA	19990617	CA 1998-2255158	199812 03
J	2 11246786		A2	19990914	JP 1998-375493	199812
PRIORI'	ry Appln. I	INFO.:			US 1997-991980	16 A 199712 17

OTHER SOURCE(S): MARPAT 131:46022

This invention relates to a process for prepg. pigment compns. by (a) treating an org. pigment with (1) a sterically hindered and/or bulky primary amine, and (2) a liq. in which the org. pigment is insol., and (b) blending the resultant surface-treated pigment compn. from step (a) with a pigment deriv. of formula (I) wherein Q represents an org. pigment moiety, X is O, S, NR1, -SO2-, -CO-, -Alk-, -Ar-, or combinations thereof, Y is -OR2, -NR3R4, or Het, Alk is C1-C5 alkylene, C2-C5 alkenylene, or C4-C5 alkadienylene, or substituted derivs. thereof, Ar is arylene, R1, R2, R3, and R4 are independently hydrogen, C1-C6 alkyl, C5-C7 cycloalkyl, C7-C16 aralkyl, or C6-C10 aryl, Het is a heterocycle, and n is 1 to 4.

IT 164578-11-4 227098-09-1

(process for prepg. org. pigment compns. with improved rheol. for high-solids coatings)

RN 164578-11-4 ZCAPLUS

CN Quino[2,3-b]acridine-2,9-disulfonamide, N,N'-bis[3-(diethylamino)propyl]-5,7,12,14-tetrahydro-7,14-dioxo-(9CI) (CA INDEX NAME)

RN 227098-09-1 ZCAPLUS

Quino[2,3-b]acridine-2-sulfonamide, N-[3-(diethylamino)propyl]-CN 5,7,12,14-tetrahydro-7,14-dioxo- (9CI) (CA INDEX NAME)

164578-11-4 227098-09-1 IT

(process for prepg. org. pigment compns. with improved rheol. for high-solids coatings)

L11 ANSWER 4 OF 5 ZCAPLUS COPYRIGHT 2006 ACS on STN

1997:53808 ZCAPLUS ACCESSION NUMBER:

126:105493 DOCUMENT NUMBER:

Color filter pigments and coloring compositions TITLE:

for color filters with excellent spectral

properties, transparency, and alkali resistance

Ehashi, Shigeyuki; Mochizuki, Akimitsu; Sato,

Akio; Ooizumi, Tetsuro

Toyo Ink Mfg Co, Japan; Toppan Printing Co Ltd PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 12 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent

Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

INVENTOR(S):

DATE APPLICATION NO. DATE PATENT NO. KIND

JP 08295810

A2 19961112

JP 1995-101851

199504 26

JP 1995-101851

199504

26

PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

MARPAT 126:105493

GI

The title benzimidazolone pigments are formed by coupling of diazotized XYC6H3NH2 (X, Y = H, NO2, CONHR1, CO2R2, CF3, cyano, halogent, C1-6 alkyl, C1-18 alkoxy; R1 = H, C1-18 alkyl, aryl; R2 = H, C1-6 alkyl) and 5-acetoacetylaminobenzimidazolone (I). A coloring compn. for red filters comprised diazo coupling products of 2-methoxyaniline and 4-nitroaniline with I 4, C.I. Pigment Red 177 10, II 0.4, 50:30:20 Bu methacrylate-Bu acrylate-methacrylic acid copolymer 13, and Anon 60 parts.

IT **185319-87-3**

(color filter pigments and coloring compns. for color filters with excellent spectral properties, transparency, and alkali resistance)

RN 185319-87-3 ZCAPLUS

CN Benzamide, N-[3-(dibutylamino)propyl]-4-[[1-[[(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]- (9CI) (CA INDEX NAME)

$$(n-Bu)_2N-(CH_2)_3-NH-C$$
 $Me-C$
 $N=N-CH-C-NH$
 $N=N+CH-C-NH$

IT **185319-87-3**

(color filter pigments and coloring compns. for color filters with excellent spectral properties, transparency, and alkali resistance)

L11 ANSWER 5 OF 5 ZCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1982:164258 ZCAPLUS

DOCUMENT NUMBER:

96:164258

TITLE:

Pigment dispersions

PATENT ASSIGNEE(S):

Toyo Ink Mfg. Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

1

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
 JР 56166266	A2	19811221	JP 1980-67860	198005
JP 01034269 PRIORITY APPLN. INFO.:	В4	19890718	JP 1980-67860 A	23 198005 23

GI

Pigments (100 parts) showing excellent agglomeration resistance in nonaq. vehicles contain 0.3-20 parts azo compds. Q[Z(CH2)nNRR1]m [Q = azo dye residue; Z = direct bond, O, NR2, S, CO, SO2, CR2R3,

Ι

SO2NR2, CONR2, C1-20 alkylene or alkenylene not directly bonded to the (CH2)n, arylene; R, R1 = H, C1-20 alkyl, alkenyl, aryl, RR1 = heterocyclic member; R2, R3 = H, C1-20 alkyl, aryl; n, m = 1-4]. For example, a PVC [9002-86-2] gravure varnish contg. 10% C.I. Pigment Yellow 83 [5567-15-7] was milled and mixed with 10% (based on the Yellow 83) I [79118-84-6] to give an ink having viscosity 1920 and 650 cP at 6 and 60 rpm, resp., compared with 3530 and 610 cP, resp., for a control not contg. I.

IT **81526-81-0**

(pigment mixts. contg., agglomeration-resistant, for coatings and inks)

RN 81526-81-0 ZCAPLUS

CN 1,3-Benzenedicarboxamide, 5-[[1-[[(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo]-N,N'-bis[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

$$Me_2N-(CH_2)_3-NH-C$$
 $Me_2N-(CH_2)_3-NH-C$
 $N=N-CH-C-NH$
 $N=N-CH-C-NH$
 $N=N-CH-C-NH$
 $N=N-CH-C-NH$

IT 81526-81-0

(pigment mixts. contg., agglomeration-resistant, for coatings and inks)